

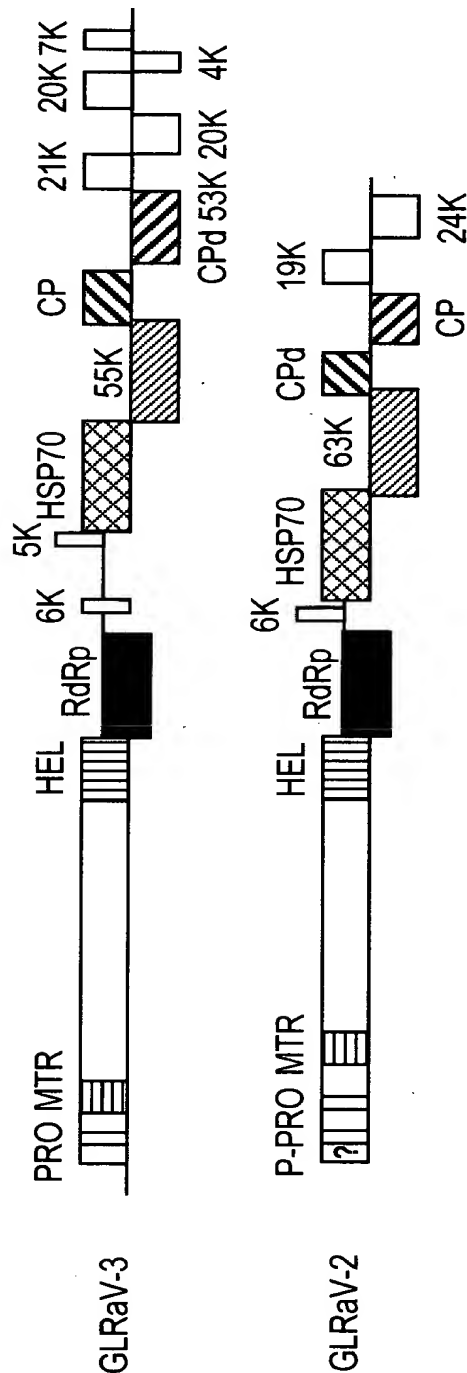
TECH CENTER 1600/2900

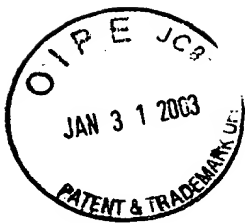
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Drawings

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FIG. 1





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FIG. 2A

ctaagtaaca	cctaggaatt	tctacctaag	attcaacttc	tttctttttc	tagtttttaa	60
ttttcctgct	gttttgaggga	agtttgccct	tcttcttcctg	tcgtccttcg	taaaccatta	120
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gcgtttttct	ctttcctcac	gttaataaca	ccttgagta	cgtaggtac	aacaaggcca	240
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FIG. 2B

actcaccggt	gggcatactg	gagacgtcgc	gcgtagctgt	gagcaaggte	gtagctggaa	3300
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cggaaaagtg	ttaccctgaa	aaggtcgtta	gcggtaagga	caaaccagta	gtaagatcgc	6480



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FIG. 2C

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cttttcttct	atttaggttt	atcttctttc	cttagtgttg	tcgtatatga	cgctacgtcc	9720



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FIG. 2D

aaattatgaa	ttttccttcg	tgtaggcgtc	gttgagtgcg	ttcatcggcg	ctagacgagc	9780
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agagaaatcg	gggaaggcgc	cacgcgaatg	accttcgtgc	tgagcgaagg	tagtatcgtg	9900
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FIG. 2E

agcgatctca	catgtctggc	taggcgacat	tacggcattc	gcaggaacaa	ttggaagacg	13020
ctgagttatg	tagacgggac	gttagcgat	gacacggctg	attgtataac	ttctaagggtg	13080
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tactaagtcc	ttataaaactg	ttttccgcgg	tctttaataa	ggaaggtgag	atgataagta	15960
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acgagatcag	cgagatacaa	cgcgccgggt	acctagaaac	atatttagga	gacgggcagg	16080
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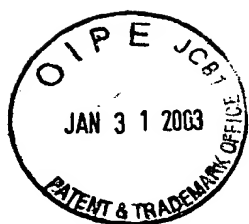


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FIG. 2F

acaaggagaa	attttaagggg	agagacatac	tagatactta	cgtttttatcg	tctgattatc	16260
cagggtttaa	atgaagttgc	tttcgctccg	ctatctttatc	ttaaggttgt	caaagtcgct	16320
tagaacgaac	gacacttgg	ttttaatact	tataaaggag	gcgcttataa	actattacaa	16380
cgctctttc	accgatgagg	gtgccgtatt	aagagactct	cgcgaaagta	tagagaattt	16440
tctcgtagcc	aggtgcggtt	cgcaaaaattc	ctgccgagtc	atgaaggctt	tgatcactaa	16500
cacagtctgt	aagatgtcga	tagaaacagc	cagaagtttt	atcgggagact	taatactcgt	16560
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aagaaaaagg	agaggcaagt	attattatag	tgggtgattgt	ggatccgacg	ttgcgaaagt	16680
taagtatat	ttgtctgggg	agaatcgagg	attgggggtgc	gtagattcct	tgaagctagt	16740
ttgcgtaggt	agacaaggag	gtggaaacgt	actacagcac	ctactaatct	catctctggg	16800
ttaaagcatc	atggacctat	cgtttattat	tgtgcagatc	ctttccgcct	cgtacaataa	16860
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gcctcttacg	aggctaactt	atcgacaata	agttaggtc			17919



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FIG. 3

ctaagtaaca cctaggaatt tctacctaag attcaacttc tttcttttttc tagtttttaa 60
ttttcctgct gtttgaggga agtttgcct tcttcttcg tcgtccttcg taaaccatta 120
tttctatttc ctctcctttt aagtttttaa gtttcgct 158



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FIG. 4A

atggactaca	ttcgcccatt	gogcgttttc	tccttttcctc	acgttaataa	caccttgag	60
tacgttaggt	acaacaaggc	caatgggtgat	gtaggagctt	tcctaaccac	catgaagttc	120
ataggaacg	tgaagttgtc	ggacttcaca	cccagggtgcg	cagctatgat	ttacattgga	180
aagctcacca	aaggggtgaa	gcgtacgttt	gtccccccac	cagttaaagg	gtttgccagg	240
cagtacgtg	ttgtcagcgg	ctcagtcagc	gcgctgagag	gggatggtaa	gaaggtccttg	300
atggaggcaa	ggacctcaac	ttccgcaact	tccgacgtgt	ctgatttcga	cgctgtattc	360
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gtcaagcgcg	agcagcctaa	accggctgtt	aagcaagatg	agcagaagcc	caaacggcaa	480
gcgtcacatt	gggctgttaa	gccaacagct	gttggcgtcc	acgtaccact	tcctaaaaaa	540
caggaagcac	tggagccagc	gcaatcagtc	ccacaacagt	cgttggagga	gaaggccgcc	600
ttgacgtttg	gcctttttctt	cagtaaagggt	gggggtgatg	agagcgacgc	tgtcatcttg	660
cggaaagggg	aattgttttaa	cagggccctt	aatgttccta	ttgatgtaaa	gaacacgttc	720
gtttgggcta	aaatctggga	tgaagcctct	cgtaggagag	ggtattttta	cgtcaaagat	780
agagctgtta	aattcttccc	tattgtgcgg	ggtagggtta	cgatcgagga	cttcatcggtg	840
aatacagccc	caggggtgtga	tgttgccctg	ccgcgcattg	agttgtggag	tatgcgcgaa	900
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FIG. 4B

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aaacagggtac	aagtcgagca	gcccacacag	aggagtttga	cgatcaatga	aggcaaggcc	4560
ggtaaacagc	tttgcatggt	tagaacgtgt	tcctgcgggtg	tgcagctgga	tgtgtacaac	4620
gaagcgacta	tcgccaccag	gttctcaaac	gcattttacct	ttgtcgataa	cttgaaaggg	4680
aggagtgcgg	tctttttctc	aaagctgggt	gaggggtata	cctataatgg	tggtagccat	4740
gtttcatcag	ggtggcctcg	tgccctagag	gatatcttaa	cggcaattaa	gtacccaagc	4800
gtcttcgacc	actgtttagt	gcagaagtac	aagatgggtg	gaggcgtacc	attccacgct	4860
gatgacgagg	agtgtatcc	atcagataac	cctatcttga	cgggtcaatct	cgtggggaag	4920
gcaaacttct	cgactaagtg	caggaagggt	ggtaagggtca	tggtcataaa	cgtagcttcg	4980
ggtgactatt	ttcttatgcc	ttgcgggtttt	caaaggacgc	acttgcatte	agtaaactcc	5040
atcgacgaag	ggcgcacag	tttgacgttc	agggcaacte	ggcgcgtctt	tgggttaggc	5100
aggatgtgca	agttagccgg	cggcgtgtcg	gatgagaagt	caccaggtgt	tccaaaccag	5160
caaccacaga	gccaaagggtc	taccagaaac	atcacaccaa	aatcgggggg	caaggctcta	5220
tctgagggga	gtggtaggga	agtcaagggtg	aggctcgacat	actcgatatg	gtgcgaacaa	5280
gattacgtta	ggaagtgtga	gtggctcagg	gctgataatc	cagtgatggc	tcttgaacct	5340
gactacaccc	caatgacatt	tgaagtgggt	aaaaccggga	cctctgaaga	tgccgtcggtg	5400
gagtacttga	agtatctggc	tataggcatt	gagaggacat	acagggcgtt	gcttatggct	5460
agaaatattg	ccgtcactac	cgccgaagggt	gttctgaaag	tacctaatca	agtttatgaa	5520
tcactaccgg	gctttcacgt	ttacaagtgc	ggcacagatc	tcattttttca	ttcaacacaa	5580
gacggcttgc	gtgtgagaga	cctaccgtac	gtactcatag	ctgaaaaagg	tatctttacc	5640
aaggggcaag	atgtcgacgc	ggtggttagct	ttgggcgaca	atctgttcgt	atgcgacgat	5700
atactggttt	tccacgatgc	cattaattttg	ataggtgcac	tgaaagtcgc	tcgatgcggc	5760
atggtgggog	aatcgtttaa	gtccttcgaa	tataagtgtc	ataatgtccc	cccaggtggc	5820
ggtaagacga	cgacgttagt	ggacgaattc	gttaagtac	ccaatagcac	agccaccatt	5880
acggctaattg	tgggaagtgc	tgaggacata	aatatggcgg	tgaagaagag	agatccgaat	5940
ttggaagggtc	tcaacagtgc	taccacagtt	aactccaggg	tggtaaactt	tatcgtcagg	6000
ggaatgtata	aaagggtttt	ggttgatgag	gtgcacatga	tgcatacaag	cttactacaa	6060
ctaggcgtct	tcgcaaccgg	cgcgctcgaa	ggcctctttt	ttggagacat	aaatcagata	6120
ccattcataa	acaggggagaa	ggtgttttagg	atggattgtg	ctgtttttgt	tccaaagaag	6180
gaaagcgttg	tatacacttc	taaatcgta	aggtgtccgt	tagatgtttg	ctacttgttg	6240
tcctcaatga	ccgtaagggg	aacggaaaag	tgttaccctg	aaaaggctcg	tagcggtaag	6300
gacaaaccag	tagtaagatc	gctgtccaaa	aggccaattg	gaaccactga	tgacgtagct	6360
gaaataaacg	ctgacgtgta	cttgtgcatg	accagtttgg	agaagtcgga	tatgaagagg	6420
tcgttgaagg	gaaaaggaaa	agaaacacca	gtgatgacag	tgcatagaag	acagggaaaa	6480



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FIG. 4C

acattcagtg atgtggtatt gtttaggacg aagaaagccg atgactccct attcactaaa 6540
caaccgcata tacttggttg tttgtcgaga cacacacgct cactgggtta tgccgctctg 6600
agctcaaagt tggacgataa ggtcggcaca tatattagcg acgcgtcacc tcaatcagta 6660
tccgacgctt tgcttcacac gttcgccccg gctggttget ttcgaggtat atga 6714



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FIG. 5

gtcagcggct cagtcagcgc gctgagaggg gatggttaaga aggtcttgat ggaggcaagg 60
acctcaactt ccgcaacttc cgacgtgtct gatttcgacg tcgtattcga agctgtttct 120
aatgcattac ttgtcgtaca ctaccaccgg gtagtgccgt atgcccccg t caagcgcgag 180
cagcctaaac cggctgttaa gcaagatgag cagaagccca aacggcaagc gtcacattgg 240
gctgttaagc caacagctgt tggcgtccac gtaccacttc ctaaaaaaca ggaagcactg 300
gagccagcgc aatcagtccc acaacagtcg ttggaggaga aggcgcctt gacgtttggc 360



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FIG. 6

VSGSVSALRG DGKKVLMPEAR TSTSATSDVS DFDVVFEAVS NALLVVHYHR	50
VVPYAPVKRE QPKPAVKQDE QKPKRQASHW AVKPTAVGVH VPLPKKQEAL	100
EPAQSVPPQS LEEKAALTFG	120



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FIG. 7

ctgaagccgc gggaaaggga gaagctgagg gaactctttc cagagctttc gatacagttc 60
tccgactcgg tcaggagtag tcacccattc gctaattgcca tgcggagctg tttcaatgga 120
atcttttcca ggaggtgtgg taatgtgtgc ttcttcgata ttggggggag cttcacgtat 180
catgtcaaag ctggccatgt gaactgtcat gtatgcaatc cagtcctaga cgttaaagat 240
gtgaagcgga gaatcaatga gatcctcttt ctttccacag ctgggggaga ttcgtacgtg 300
tccagtgacc ttctaactga agcggcttca aagtctgtgt cttactgtag tcgagaatcg 360
cagaactgcg attctagagc cgatgcgggt tttatgggtg atgtgtacga tatatccccg 420
cagcaggtag cagaggctat ggataagaag ggtgcgctgg ttttcgacat agctcttatg 480
ttccccgtgg agttgttgta cggtaacggt gaagtttact tggaagaact cgatacgttg 540
gtgaagaggg aaggtgatta cctggcctac aatgttggtc agtgtggtga gatgtatgaa 600
cattccttct ctaacgtaag cgggtttttc accttttctt atgtacgcac ttcgtccggg 660
aacgtgttta agctagagta tgagggatac cgttgtggtt accatcatct cactatgtgt 720
agggctcaga agtcacctgg aactgaggtt acgtataggt cgttggtccc gtcgttcgtg 780
ggcaaatcgc tgggtttcat acctgttgta gctggt 816



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FIG. 8

LKPREREKLR	ELFPELSIQF	SDSVRSSHPF	ANAMRSCFNG	IFSRRCGNVC	FFDIGGSFTY	60
HVKAGHVNCH	VCNPVLDVKD	VKRRINEILF	LSTAGGDSYV	SSDLLTEAAS	KSVSYCSRES	120
QNCDSRADAG	FMVDVYDISP	QQVAEAMDKK	GALVFDIALM	FPVELLYGNG	EVYLEELDTL	180
VKREGDYLAY	NVGQCGEMYE	HSFSNVSGFF	TFSYVRTSSG	NVFKLEYEGY	RCGYHHLTMC	240
RAQKSPGTEV	TYRSLVPSFV	GKSLVFIPVV	AG			272



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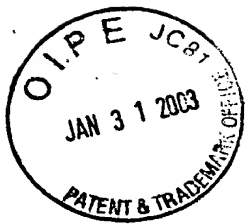
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FIG. 9

Consensus #1	MT I	MT Ia	MT II
.....P.....F.....S.H.....R.....N.....D.GG.....H.C.P..D..D..R.....			
GLRaV2-MTR	MSEATQNSLTRFYPOFELKFSHSSHDHPAAASRLLENETLVRLCGNS-VSDIGGCPPLFHLHSKTORRVHVCRLVLDGKDAQRRVWRDLQY		
BYV-MTR	MGEAVQSGLTRAYPQNLSTHVSYSYSDHPAAAGSRLLENETLASMAKSS-FSDIGGCPPLFHIK-RGSTDYHVCRLVDMKDAQRRVSRRELQA		
LIIV-MTR	LSMDEKKMITNLFDPDIQMSFNQKSYSNHGVFNAMRACENFYFSRKFKNSDYIDAGGDVSTLRSK-NHNVHICSPRLDLKDAARHIQATVI		
CTV-MTR	MSENQQVMLTRAYPEENINFIHVSHSDHPVAAAGSRLLENHLVRKHAGTD-YSDVGGCPPLFHLRA-GHSGVHVCRLVYDVKDAHRRVVRHHQL		
LCV-MTR	LSTRQKKIVCDLFPHLKFEFKETQSSHPFVNVRVTVSNFVLYKMQEGRHFVDFGNIGTVINSE-CDDVHICNPVADSRDAKRHVNDGLFL		
GLRaV3-MTR	LKPREREKRELFPELSIQFSDSVSRSSHFPANAMRSCFNGIFSRRCGNVCFD IGSFTYHVKAG-HVNCHVCNPLVDVKDKRRINEILFL		
Consensus #1	MT I Ia	MT III	
.....C.....C.....V.VYD.....AM.....P.....			
GLRaV2-MTR	SNVRLG-DDD--KILEGPRN-IDICHYPLGACDHESSAMMVQVYDASLYEICGAMIKKSRITVLTMTVTPGEFLDGRECVYMESLDCEIEV		
BYV-MTR	RGLVENLSRE--QLVEAQAAR-VSVCPHTLGCNVCNKSVDLIMVQVYDASLYEIA SAMVLKESKVAYLTMVTPGELLDEREFAIDALGCDVWV		
LIIV-MTR	DGLKG-----YGETISFCNTKTEDCAVNRDIIIAVEVYDMLRDMAKAMLSHGRKFEFSCIIPPEIFTEKCNVELYEGRLKV--		
CTV-MTR	SKVSLDQSDGVKQVGTWNT-NSVCGN ILGECYHASEAMVMQVYDVPLRELCLAMINKKTSVCMVMTVTPGELLDARESFFIKDLDCSVEL		
LCV-MTR	AKSVG-----VSNNISVCNKLQAHCHNKSRAVMVEVYDMLTEMCOQMLAHGTIRLDF ILLPGDLLEDFTITIFDGGCKI--		
GLRaV3-MTR	STAGGDSYVSSDLLTEAASKSVSYCSRESQNCDSRADAGFMVDYDISPQOVA EAMDKKALVFDIALMFFVELLYNGEVYLEELDTLV--		
Consensus #1	MT IV		
.....D....Y.....H.....G..F.....			
GLRaV2-MTR	DVHADVVMYKFGSSC--YSHKLSIIKDIMTTPYLTIG-GFLFSVMEYEVRMGVNYFKITKSEVSPSISCTKLLRYRRANSDVVKVLPFRD		
BYV-MTR	DTRRDMVQYKFGSSC--YCHKLSNIKSIMLTPTAFTFS-GNLFVMEYENRMGVNYFKITRSAYSPEIRGVKTLRYRRACTEVVQVKLPFRD		
LIIV-MTR	TRIGDNVEYYGSGNGETFSHSCQTLKDILSVQVFQFG-GRVFKKTLHESRGQLHFFSICICEKIEPGSVKLTYYQORSELDKVTLRIPVKD		
CTV-MTR	DPIADRVVYCFNNSA--YTHTYSTICECMRTPCLVVD-GFLFTIEMVSLRCSVNYCITKSSVCPR ISETKRLRYRRCDSDLRIRIKIPRYS		
LCV-MTR	TKDDDKVYYYGDAAEAETHDLNLRNIMTDNLVCVD-GTAFKKTLETSYGPFRRHFSLTKLETFPSGKIEFLTMVDKCEKNMLVKVPMRN		
GLRaV3-MTR	KREGDYLAYNVGQCCEMEYHSFNSVSGFTFSYVRTSSGNVFKLEYEGYRCGYHHLTMCRAQKSPGTEVYRSLVPSFVGKSLVFIPIVAVAG		



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FIG. 10

gtgggcgaat cgtttaagtc cttcgaatat aagtgcata atgctcccc aggtggcggt 60
aagacgacga cgtagtgga cgaattcggt aagtcaccca atagcacagc caccattacg 120
gctaattgtg gaagttctga ggacataaat atggcggtga agaagagaga tccgaatttg 180
gaaggtctca acagtgtac cacagttaac tccagggtg taaactttat cgtcagggga 240
atgtataaaa gggttttggt ggatgaggtg cacatgatgc atcaaggctt actacaacta 300
ggcgtcttcg caaccggcgc gtcggaaggc ctcttttttg gagacataaa tcagatacca 360
ttcataaaca gggagaagggt gtttaggatg gattgtgctg tttttgttcc aaagaaggaa 420
agcgttgat acacttctaa atcgtacagg tgtccgtag atgtttgcta cttgttgtcc 480
tcaatgaccg taaggggaac ggaaaagtgt taccctgaaa aggtcgtag cggttaaggac 540
aaaccagtag taagatcgct gtccaaaagg ccaattggaa ccaatgatga cgtagctgaa 600
ataaacgctg acgtgtactt gtgcatgacc cagttggaga agtcggatat gaagaggtcg 660
ttgaaggga aaggaaaaga aacaccagtg atgacagtgc atgaagcaca gggaaaaaca 720
ttcagtgatg tggattgtt taggacgaag aaagccgatg actccctatt cactaaacaa 780
ccgcatatac ttgttggtt gtcgagacac acacgtcac tggtttatgc cgctctgagc 840
tcaaagttgg acgataagggt cggcacatat att 873



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FIG. 11

VGESFKSFY	KCYNAPPGGG	KTTTLVDEFV	KSPNSTATIT	ANVGSSSEDIN	MAVKKRDPNL	60
EGLNSATTVN	SRVVNFIVRG	MYKRVLVDEV	HMMHQGLLQL	GVFATGASEG	LFFGDINQIP	120
FINREKVFRM	DCAVFVPKKE	SVVYTSKSYR	CPLDVCYLLS	SMTVRGTEKC	YPEKVVSGKD	180
KPVVRSLSKR	PIGTTDDVAE	INADVYLCMT	QLEKSDMKRS	LKGKGKETPV	MTVHEAQGKT	240
FSDVVLFR TK	KADDSLFTKQ	PHILVGLSRH	TRSLVYAALS	SKLDDKVGTY	I	291



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FIG. 12

atgaatttttg	gaccgacctt	cgaaggggag	ttggtacgga	agataccaac	aagtcatttt	60
gtagccgtga	atgggtttct	cgaggactta	ctcgacgggt	gtccggcttt	cgactatgac	120
ttctttgagg	atgatttcga	aacttcagat	cagtctttcc	tcatagaaga	tgtgcgcatt	180
tctgaatctt	tttctcattt	tacgtcgaaa	atagaggata	ggttttacag	ttttattagg	240
tctagcgtag	gtttaccaa	gcgcaacacc	ttgaagtgt	acctcgtcac	gtttgaaaat	300
aggaatttca	acgccgatcg	cggttgtaac	gtgggttgtg	acgactctgt	ggcgcatgaa	360
ctgaaggaga	ttttcttcga	ggaggtcggt	aacaaagctc	gttttagcaga	ggtgacggaa	420
agccatttgt	ccagcaacac	gatgttggt	tcagattggt	tggacaaaag	ggcacctaac	480
gcttacaagt	ctctcaagcg	ggcttttaggt	tcgtttgtct	ttcatccgtc	tatgttgact	540
tcttatacgc	tcatggtgaa	agcagacgta	aaaccaaggt	tggacaatac	gccattgtcg	600
aagtacgtaa	cggggcagaa	tatagtctac	cacgataggt	gcgtaactgc	gcttttttct	660
tgcattttta	ctgcgtgcgt	agagcgctta	aaatacgtag	tggacgaaag	gtggctcttc	720
taccacggga	tggacactgc	ggagttggcg	gctgcattga	ggaacaattt	gggggacatc	780
cggcaatact	acacctatga	actggatatc	agtaagtacg	acaaatctca	gagtgtcttc	840
atgaagcagg	tggaggagtt	gatactcttg	acacttggtg	ttgatagaga	agttttgtct	900
actttctttt	gtggtgagta	tgatagcgtc	gtgagaacga	tgacgaagga	attggtgttg	960
tctgtcggct	ctcagaggcg	cagtgggtgt	gctaacacgt	ggttgggaaa	tagtttagtc	1020
ttgtgcacct	tgttgctcgt	agtacttagg	ggattagatt	atagttatat	tgtagttagc	1080
ggtgatgata	gccttatatt	tagtcggcag	cggttggata	ttgatacgtc	ggttctgagc	1140
gataattttg	gttttgacgt	aaagattttt	aaccaagctg	ctccatattt	ttgttctaag	1200
tttttagttc	aagtcgagga	tagtctcttt	tttgttcccg	atccacttaa	actcttcggt	1260
aagtttgagg	cttccaaaac	ttcagatatc	gaccttttac	atgagatttt	tcaatctttc	1320
gtcgatcttt	cgaaggggtt	caatagagag	gacgtcatcc	aggaattagc	taagctgggtg	1380
acgcggaaat	ataagcattc	gggatggacc	tactcggctt	tgtgtgtctt	gcacgtttta	1440
agtgc aaatt	tttcgcagtt	ctgtagggt	tattaccaca	atagcgtgaa	tctcgatgtg	1500
cgcctatttc	agaggaccga	gtcgctttcc	ttgctggcct	tgaaggcaag	aattttaagg	1560
tggaaagctt	ctcgttttgc	cttttcgata	aagaggggt			1599



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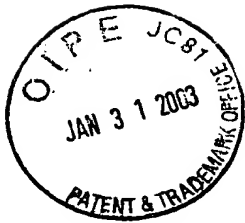
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FIG. 13

MNFGPTFEGE	LVRKIPTSHF	VAVNGFLEDL	LDGCPAFDYD	FFEDDFETSD	QSFLIEDVRI	60
SEFSHFSTSK	IEDRFYSFIR	SSVGLPKRNT	LKCNLVTFEN	RNFNADRGCN	VGCDSDVAHE	120
LKEIFFEEVV	NKARLAEVTE	SHLSSNTMLL	SDWLDKRAPN	AYKSLKRALG	SFVFHPSMLT	180
SYTLMVKADV	KPKLDNTPLS	KYVTGQNIVY	HDRCVTALFS	CIFTACVERL	KYVVDERWLF	240
YHGMDTAELA	AALRNNLGDI	RQYYTYELDI	SKYDKSQSAL	MKQVEELILL	TLGVDREVLS	300
TFFCGEYDSV	VRTMTKELVL	SVGSQRRSGG	ANTWLGNSLV	LCTLSSVVLRL	GLDYSYIVVS	360
GDDSLIFSRQ	PLDIDTSVLS	DNFGFDVKIF	NQAAPYFCSK	FLVQVEDSLF	FVPDPLKLFV	420
KFGASKTSDI	DLLHEIFQSF	VDLSKGFNRE	DVIQELAKLV	TRKYKHSGWT	YSALCVLHVL	480
SANFSQFCRL	YYHNSVNLDV	RPIQRTELSL	LLALKARILR	WKASRFAPSI	KRG	533



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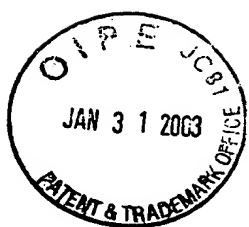
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FIG. 14

atgttatggt gttcagccag tgtcaaattt tcaaacgggt tacaattatc gctacttatt 60

tgcgcatggt tgtagcgggt gctaattggt agcttttgta gaaggcgatg a

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FIG. 15

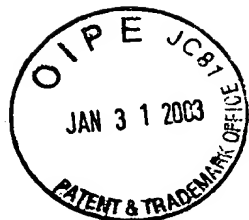
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MLCCSASVKF SNGLQLSLLI CACLLAVLIV SFCRRR

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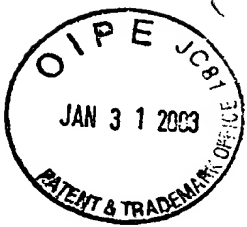
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FIG. 16

MDYIRPLRVF	SFPHVNTLE	YVRYNKANGD	VGAFLTMMKF	IGNVKLSDF	PRCAAMIYIG	60
KLTKGVKRTF	VPPPVKGFAR	QYAVVSGSVS	ALRGDGKKVL	MEARTSTSAT	SDVSDFDVVF	120
EAVSNALLV	HYHRVVPYAP	VKREQPKPAV	KQDEQKPKRQ	ASHWAVKPTA	VGHVPLPKK	180
QEALEPAQSV	PQOSLEEKAA	LTFGLFFSKG	GGDESDAVIL	RKGKLFNRAL	NVPIDVKNTF	240
VWAKIWDEAS	RRRGYFYVKD	RAVKFFPIVR	GRATIEDFIV	NTAPGCDVAL	PRIELWSMRE	300
RAFVCTTKGW	CWFNNERLRG	EIYRRRCFSS	SFSIGFLMHL	GFRSLKVIRF	AGTNILHMPS	360
LNEERTFGWK	GGDVYLPNVP	KTAIVAGDRT	RLGGEILASV	ANALNQUEEVY	SSVSSITNR	420
LVLRDQSALL	SHLDTKLCDM	FSQORDAMIRE	KPSHRCDVFL	KPREREKLRE	LFPELSIQFS	480
DSVRSSHFA	NAMRSCFNGI	FSRRCGNVCF	FDIGGSFTYH	VKAGHVNCHV	CNPVLDVKDV	540
KRRINEILFL	STAGGDSYVS	SDLLTEAASK	SVSYCSRESQ	NCDSRADAGF	MVDVYDISPQ	600
QVAEAMDKKG	ALVFDIALMF	PVELLYGNGE	VYLEELDTLV	KREGDYLAYN	VGQCGEMYEH	660
SFSNVSGFFT	FSYVRTSSGN	VFKLEYEGYR	CGYHHLTMC	AQKSPGTEVT	YRSLVPSFVG	720
KSLVFIPVVA	GSSVSFKTIV	LDSDFVDRIY	SYALNTIGTF	ENRTFEYAVG	AVRSQKTHVI	780
TGSRVVHASK	DISPDDMWGL	VVAVMAQAIK	DRAKSIRSYN	FIKASEGSLA	GVFKLFFQTV	840
GDCFSNAVSV	YAKAMVHDNF	NVLETLMSP	RAFIRKVPGS	VVTICTSGA	SDRLELRGAF	900
DISKETFGRK	LKNSRLRVFS	RAIVEDSIKV	MKAMKTEDGK	PLPITEDSVY	AFIMGNVSNV	960
HCTRAGLLGG	SKATVVSSVS	KGLVARGAAT	KAFSGITSFF	STGSLFYDRG	LTEDERLDAL	1020
VRTENAINSP	VGILETSRVA	VSKVVAGTKE	FWSEVSLNDF	TTFVLRNKVL	IGIFVASLGA	1080
APIAWKYRRG	IAANARRYAG	SSYETLSSLS	SQAAGGLRGL	TSSTVSGGSL	VVRRGFSSAV	1140
TVTRATVAKR	QVPLALLSFS	TSYAISGCSM	LGIWAHALPR	HLMFFFGLGT	LLGARASANT	1200
WKFGGFSNNW	CAVPEVVWRG	KSVSSLLLP	TLGVSLIIRG	LLNDTIPQLA	YVPPVEGRNV	1260
YDETLRYYRD	FDYDEGAGPS	GTQHEAVPGD	DNDGSTSSVS	SYDVVTNVRD	VGISTNGEVT	1320
GEEETHSPRS	VQYTYVEEEV	APSAAVAERQ	GDPSGSGTAD	AMAFVESVKK	GVDDVFHQQS	1380
SGETAREVEV	DGKGLLPESV	VGEAPTQERG	RAADGNTAQT	AVNEGDREPV	QSSLVSSPQA	1440
DIPKVTQSEV	HAQKEVKQEV	PLATVSGATP	IVDEKPAPSV	TTRGVKIIDK	GKAVAHVAEK	1500
KQVQVEQPKQ	RSLTINEGKA	GKQLCMFRTC	SCGVQLDVYN	EATIATRFSN	AFTFVDNLKG	1560
RSVFFSKLG	EGYTYNGGSH	VSSGWPRALE	DILTAIKYPS	VFDHCLVQKY	KMGGGVPFHA	1620
DDEECYPSDN	PILTVNLVGK	ANFSTKCRKG	GKVMVINVAS	GDYFLMPCGF	QRTHLHSVNS	1680
IDEGRISLTF	RATRRVFGVG	RMLQLAGGVS	DEKSPGVPNQ	QPQSQGATRT	ITPKSGGKAL	1740
SESGGREVKG	RSTYSIWCEQ	DYVRKCEWLR	ADNPVMALEP	DYTPMTFEVV	KTGTSEDAVV	1800
EYLYLAIGI	ERTYRALLMA	RNIAVTTAEG	VLKVPNQVYE	SLPGFHVYKS	GTDLIHFSTQ	1860
DGLRVRDLPY	VLIAEKGIFT	KGKDVEDAVVA	LGDNLFVCDD	ILVFHDAINL	IGALKVARCG	1920
MVGESFKSFE	YKCYNAPPGG	GKTTTLVDEF	VKSPNSTATI	TANVGSSEDI	NMAVKKRDPN	1980
LEGLNSATTV	NSRVVNFIVR	GMVKRVLVDE	VHMMHQGLLQ	LGVFATGASE	GLFFGDINQI	2040
PFINREKVFR	MDCAVFVPPK	ESVYTSKSY	RCPLDVCYLL	SSMTVRGTEK	CYPEKVVSGK	2100
DKPVVRSLSK	RPIGTTDDVA	EINADVILCM	TQLEKSDMKR	SLKGKGKETP	VMTVHEAQGK	2160
TFSDVLFRT	KKADDSLFTK	QPHILVGLSR	HTRSLVYAAL	SSKLDDKVGT	YISDASPQSV	2220
SDALLHTFAP	AGCFRGI					2237



Title: GRAPEVINE LEAFROLL VIRUS PROTEINS AND
THEIR USES

Applicant(s): Dennis Gonsalves et al.

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FIG. 17

aaaaatcctt caataaatTT gaaataaaca aaagtaagaa aaatgaaata attaggctag 60
tcttttttgtt cgtcttttgc ttttgtagaa taggttttat ttcgaggtaa gatgactaaa 120
ctttacctca cggttttaata ctctgatatt tgtaaaatta gtccgtaaag tcgatagtga 180
tattatatta gtatagtata ataaacgcca aaatccaatt aaagtttggg acctaggcgg 240
gcctcttacg aggctaactt atcgacaata agttaggtc 279